

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: ITL48351

Luminaire Tested: **2EP3MX-2U6T8S44I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: ITL48351
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3MX-2U6T8S44I
Description: WHITE PAINTED FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, WHITE PAINTED FORMED METAL BALLAST COVER, FABRICATED DIFFUSE METAL PARABOLIC 16-CELL LOUVER.
Light Source: TWO 31-WATT T-8 U-LAMP FLUORESCENTS, PHILIPS FB31T8/TL741/6, HORIZONTAL POSITION.
Ballast/Driver: MAGNETEK B332I120RH

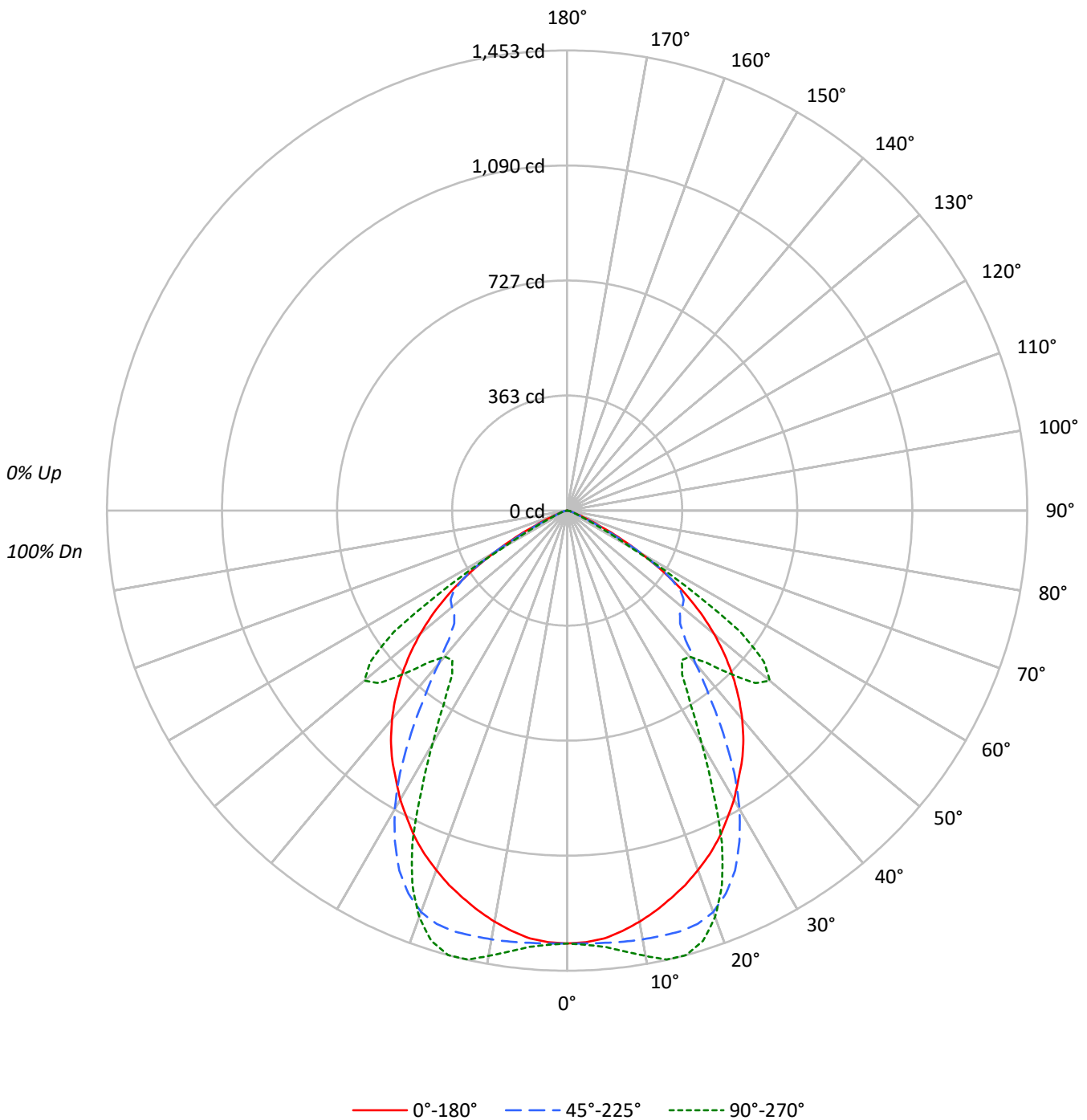
Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 2618.8 lumens
Efficiency: 50.4%
Efficacy: 41.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.05 / 1.11
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	60	60	60	60	59	59	59	59	56	56	56	54	54	54	51	51	51	50
1	56	54	53	51	55	53	52	50	51	50	49	49	48	47	48	47	46	45
2	52	49	46	44	51	48	46	43	46	44	42	45	43	42	43	42	41	40
3	48	44	41	38	47	43	40	38	42	39	37	41	38	36	39	37	36	35
4	45	40	36	33	44	39	36	33	38	35	33	37	34	32	36	34	32	31
5	42	36	32	29	41	36	32	29	35	31	29	34	31	29	33	30	28	27
6	39	33	29	26	38	32	29	26	32	28	26	31	28	26	30	27	25	24
7	36	30	26	23	35	30	26	23	29	26	23	28	25	23	28	25	23	22
8	34	28	24	21	33	27	24	21	27	23	21	26	23	21	26	23	21	20
9	32	26	22	19	31	25	22	19	25	21	19	24	21	19	24	21	19	18
10	30	24	20	18	29	23	20	18	23	20	18	23	20	18	22	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4848	4848	4848
5°	4827	4877	4923
10°	4746	4951	5142
15°	4652	5052	5335
20°	4559	5091	5155
25°	4453	4907	4527
30°	4316	4459	3477
35°	4169	3719	2740
40°	3981	2921	2787
45°	3711	2528	3656
50°	3338	2621	4607
55°	2788	2690	4130
60°	1894	1901	1631
65°	915	663	562
70°	363	290	290
75°	206	192	192
80°	143	143	143
85°	81	81	81



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	130.9	5.0	2.5	0°	1367	1367	1367	1367	1367	
10°-20°	384.5	14.7	7.4	5°	1356	1360	1370	1380	1383	128
20°-30°	545.5	20.8	10.5	15°	1267	1301	1376	1437	1453	357
30°-40°	527.7	20.2	10.1	25°	1138	1207	1254	1193	1157	523
40°-50°	498.1	19.0	9.6	35°	963	1030	859	661	633	601
50°-60°	409.9	15.7	7.9	45°	740	716	504	602	729	568
60°-70°	102.8	3.9	2.0	55°	451	364	435	580	668	396
70°-80°	16.8	0.6	0.3	65°	109	99	79	71	67	123
80°-90°	2.6	0.1	0.0	75°	15	15	14	14	14	18
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	3
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1061.0	40.5	20.4							
0°-40°	1588.7	60.7	30.6							
0°-60°	2496.7	95.3	48.0							
0°-90°	2618.8	100.0	50.4							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	2618.8	100.0	50.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1367	1367	1367	1367	1367
2.5°	1364	1365	1368	1371	1372
5°	1356	1360	1370	1380	1383
7.5°	1339	1349	1373	1395	1404
10°	1318	1336	1375	1413	1428
12.5°	1294	1319	1375	1433	1452
15°	1267	1301	1376	1437	1453
17.5°	1240	1281	1369	1414	1425
20°	1208	1258	1349	1368	1366
22.5°	1175	1235	1309	1293	1278
25°	1138	1207	1254	1193	1157
27.5°	1095	1173	1178	1063	996
30°	1054	1134	1089	909	849
32.5°	1006	1088	982	771	726
35°	963	1030	859	661	633
37.5°	914	964	737	585	595
40°	860	891	631	556	602
42.5°	802	806	553	565	651
45°	740	716	504	602	729
47.5°	675	623	483	650	806
50°	605	531	475	680	835
52.5°	531	444	464	663	783
55°	451	364	435	580	668
57.5°	362	292	370	435	443
60°	267	225	268	250	230
62.5°	183	160	159	131	122
65°	109	99	79	71	67
67.5°	57	55	40	40	39
70°	35	33	28	29	28
72.5°	22	22	20	20	20
75°	15	15	14	14	14
77.5°	11	10	10	9	10
80°	7	7	7	7	7
82.5°	4	4	4	4	4
85°	2	2	2	2	2
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)